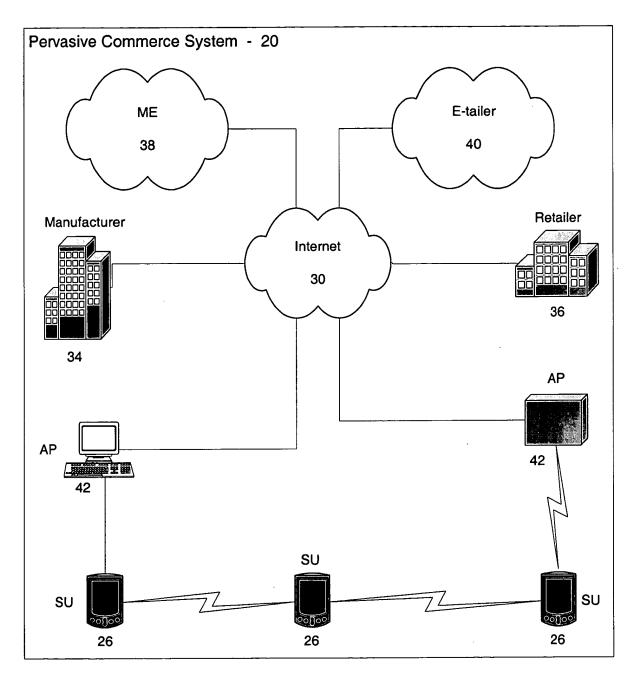


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**FIGURE 1 - Pervasive Commerce System** 





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# FIGURE 2 - Generic Case Structure

Item Data Block ("I" Block)		
Case Information	ID, version, etc., for the entire case.	
Link Information	Relationship to other cases.	
Item Information	ID, name, description, etc., for the item.	
ME Public Key	Case key or ME key version, used for	
	encryption and whose private key peer is used in "I" and "O" Block signatures.	
Distributor Public Key	Assigned to or received from Distributor; private key is used in "D" Block signature.	
Block Signature	ME signature of "I" Block	

Object Block ("O" Block)	
Object Information	ID, type, description, encoding, size, etc., for the contained digital object.
Object	Image, music, digital asset, etc.
Block Signature	ME signature of "O" Block (via private key peer to ME Public Key).

Distributor Data Block ("D"	
Block)	
Distributor Information	ID, name, information, etc., for Distributor.
Item Information	Encrypted wholesale price, etc., of item.
Item Options	Selectable features and options of item.
Mutation Rules	Controlling application behavior for case mutation (e.g., expiration date).
Passer Public Key	Assigned to or received from Passer, whose private peer is used in "P" Block signature.
Block Signature	Distributor signature of "D" Block (via private key peer to Distributor Public Key).

Passer Data Block ("P" Block)	
Passer Information	ID, name, etc., of Passer.
Item Information	Sales price, comments, etc., about item.
Receiver Public Key	Assigned to or received from Receiver.
Block Signature	Passer signature of "P" Block (via private
	key peer to Passer Public Key).

Receiver Data Block ("R" Block)	
Receiver Information	ID, name, etc., of Receiver.
Block Signature	Receiver signature of "R" Block (optional).



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# **FIGURE 3 - Pervasive Commerce Case Layout**

Product Data	roduct Data (pro	oduct name & description, manufacturer name	e, address, phone, URL, MSRP, etc)
ME Public Key Version	n	Case Version (Template)	Distributor Public Key
Case ID		Case SubID	Product Data Signature (ME)
Distributor Data	istributor Info (n	ame, address, phone, URL, promotion, start	date, stop date, etc)
Encrypted [Distributo	r Price]	Product selectable features	Sales Associate Public Key
Distributor Comments	s	Mutations	Distributor Data Signature
sales Associate		Sales Associate Comments	Consumer Public Key
Sales Associate  Retail Price		Sales Associate Comments  Sales Associate ID	Consumer Public Key  Sales Associate Data Signature
Sales Associate  Retail Price  Consumer			
Retail Price		Sales Associate ID	Sales Associate Data Signature
Retail Price	lame	Sales Associate ID  Consumer Comments	Sales Associate Data Signature  Consumer Password (encrypted)

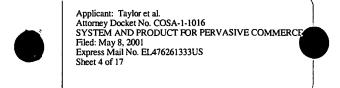
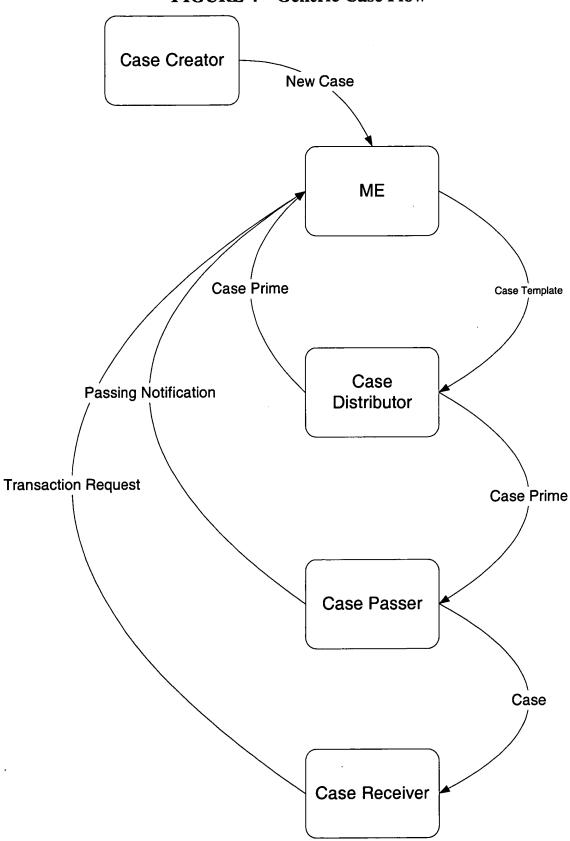


FIGURE 4 - Generic Case Flow





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# **FIGURE 5 - New Case Template Layout**

Case			
Item Data	Product Data (product	name & description, manufacturer name, ac	ddress, phone, URL, MSRP, etc)
ME Public Key V	ersion	Case Version (Template)	Distributor Public Key
Case ID		Case SubiD	Product Data Signature (ME)
Dynamic Data		Product Feature Selection Choices	
	,	FIGURE 6 - Case Prim	e Layout
Case			
Item Data	Product Data (product	name & description, manufacturer name, ac	ddress, phone, URL, MSRP, etc)
ME Public Key V	ersion	Case Version (Template)	Distributor Public Key
Case ID		Case SubID	Product Data Signature (ME)
=======================================	-		
Digital Object(s)		Object Data	Digital Object Signature (ME)
Distributor Data	Distributor Info (name	e, address, phone, URL, promotion, start dat	e, stop date, etc)
Encrypted [Dist	ributor Price]	Product selectable features	Sales Associate Public Key
Distributor Com	ments	Mutations	Distributor Data Signature
Dynamic Data		Distributor Price	

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# FIGURE 7 - Passed Case Layout

ase	•	
Item Data Product Data (prod	uct name & description, manufacturer nam	ne, address, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Digital Object(s)	Object Data	Digital Object Signature (ME)
Distributor Data  Distributor Info (nar	ne, address, phone, URL, promotion, start	t date, stop date, etc)
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key
Distributor Comments	Mutations	Distributor Data Signature
Passer (Sales Associate) Data	Sales Associate Comments	Consumer Public Key
Encrypted [Sales Associate Price]	Sales Associate ID	Sales Associate Data Signature
Dynamic Data	Sales Associate Price	



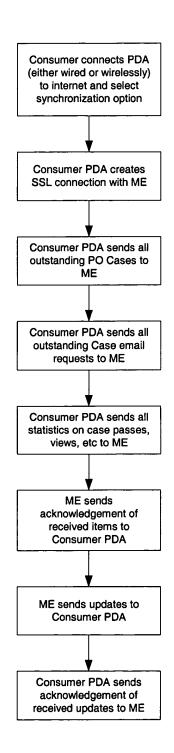
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# **FIGURE 8 - Complete Case Layout**

ME Public Key Vers	ion	Case Version (Template)	Distributor Public Key
Case ID			
		Case SubiD	Product Data Signature (ME)
Digital Object(s)		Object Data	Digital Object Signature (ME)
Distributor Data	Distributor Info (name	e, address, phone, URL, promotion, start	date, stop date, etc)
Encrypted [Distribute	or Price]	Product selectable features	Sales Associate #1 Public Key
Distributor Commen	ts	Mutations	Distributor Data Signature
Passer (Sales Associa	te) Data	Sales Associate Comments	Consumer Public Key
Retail Price		Sales Associate ID	Sales Associate Data Signature
Receiver (Consumer) [	Data	Consumer Comments	
Consumer ID		Consumer Data Signature	

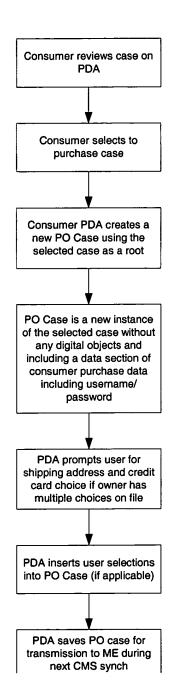
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FIGURE 9 - Consumer Synchronization of PDA with ME



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#### FIGURE 10 - Consumer Makes Case-Based Purchase





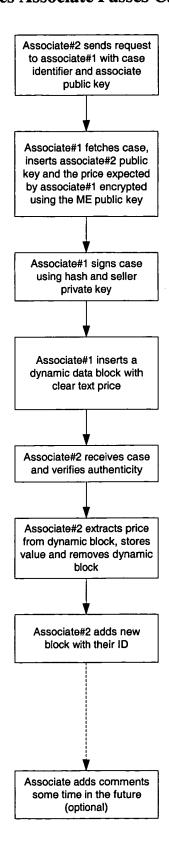
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# FIGURE 11 - Purchase Request Case Layout

ase			
Product Data	Product Data (product	name & description, manufacturer name, a	ddress, phone, URL, MSRP, etc)
ME Public Key V	ersion	Case Version (Template)	Distributor Public Key
Case ID		Case SubiD	Product Data Signature (ME)
Distributor Data	Distributor Info (name,	address, phone, URL, promotion, start date	e, stop date, etc)
Encrypted [Distr	ibutor Price]	Product selectable features	Sales Associate Public Key
Distributor Com	ments	Mutations	Distributor Data Signature
Sales Associate	,	Sales Associate Comments	Consumer Public Key
Retail Price		Sales Associate ID	Sales Associate Data Signature
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Consumer		Consumer Comments	Consumer Password (encrypted)
Consumer ID		Product Feature Selections	Consumer Data Signature
Consumer Acco	unt Name	Local Purchase Time/Date	Purchase Price
Credit Card sele	ction	Billing Address selection	

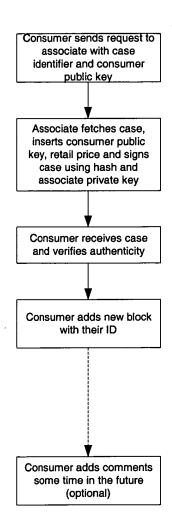
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#### FIGURE 12 - Sales Associate Passes Case to Sales Associate



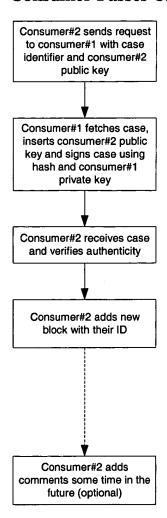
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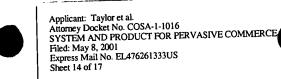
FIGURE 13 - Sales Associate Passes Case to Consumer



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#### **FIGURE 14 - Consumer Passes Case to Consumer**





#### **FIGURE 15 - Pervasive Commerce Case Layout**

Product Data	Product Data (produc	ct name & description, manufacturer name, ad	Idress, phone, URL, MSRP, etc)
ME Public Key	Version	Case Version (Template)	Distributor Public Key
Case ID		Case SubID	Product Data Signature (ME)
Digital Object(s)			
Digital Object(s)		Object Encoding	Object Size
Object Descripti	ion	Object (image, music, digital asset)	Digital Object Signature (ME)
Distributor Data	Distributor Info (name	e, address, phone, URL, promotion, start date	, stop date, etc)
Encrypted [Distr	ributor Price]	Product selectable features	Sales Associate #1 Public Key
Distributor Com	ments	Mutations	Distributor Data Signature
Sales Associate #	1 Data	Sales Associate Comments	Sales Associate #2 Public Key
Encrypted [Sale	s Associate #1 Price]	Sales Associate #1 ID	Sales Associate #1 Data Signature
Sales Associate #	O Date		
Sales Associate #	2 Data	Sales Associate Comments	Customer #1 Public Key
Sales Associate	#2 ID	Retail Price	Sales Associate #2 DataSignature
Customer #1 Data			
Descript #1 Data		Customer Comments	
Customer #1 ID		Customer #1 Data Signature	Customer #2 Public Key
Customer #2 Data			
		Customer Comments	

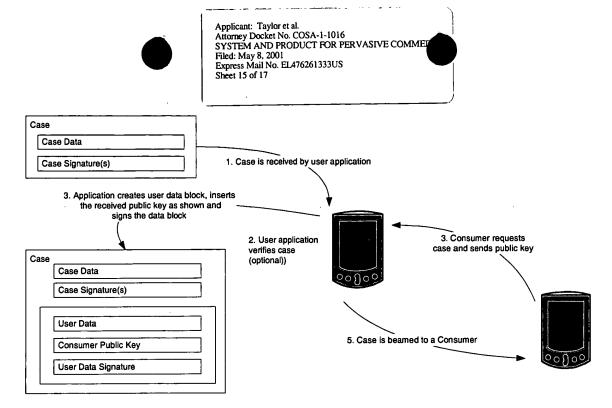


FIGURE 16 - Receiver Selected Key Exchange

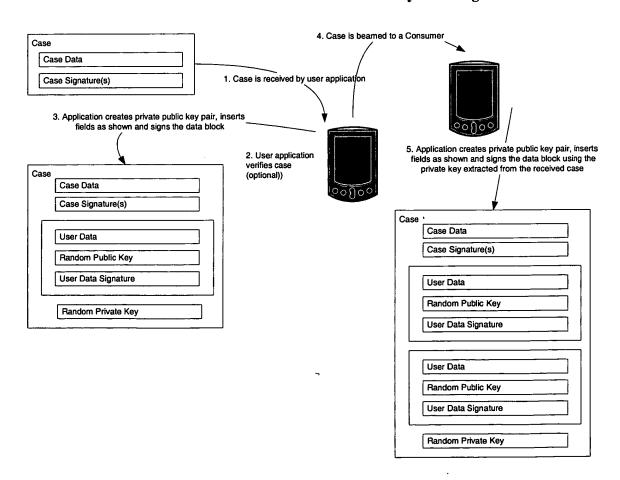


FIGURE 17 - Passer Generated Key Exchange



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Digital Object

Object Description (text name and description of the contained digital object)

Object Type (image, video, music clip, music song, music album)

Object Encoding (jpeg, tiff, mpeg, mp3, midi, XrML, zip, pdf)

Object Size (total size of object in bytes)

Object (actual object data)

Digital Object Signature (ME)

#### FIGURE 18 - DIGITAL OBJECT

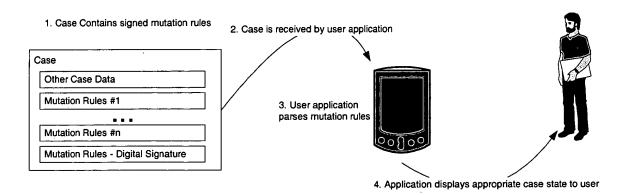


FIGURE 19 - Trusted Case Mutation

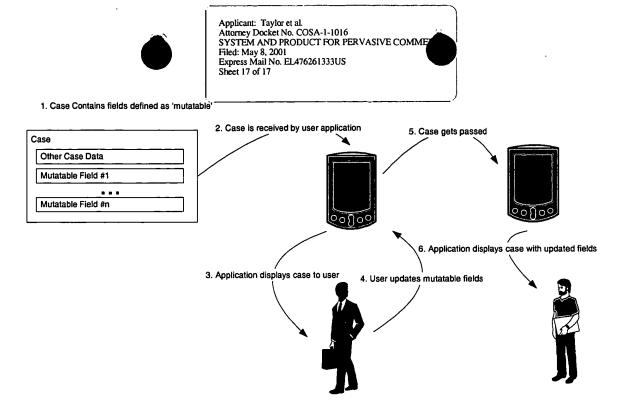


FIGURE 20 - Untrusted Case Mutation